

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 354]

MAY 2019

Sub. Code: 2915

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH V – PHARMACEUTICAL ANALYSIS
PAPER III – ADVANCED PHARMACEUTICAL ANALYSIS**

Q.P. Code : 262915

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Detail about the concept of validation and calibration of UV-Visible spectrophotometer.
b) Explain the principle, applications of X-ray fluorescence spectrometry.
2. a) Write the principle and procedures involved in the assay of :
i) Rabies vaccine ii) Oxytocin
b) Write the procedure and principle involved in the estimation of ascorbic acid by various analytical methods.

II. Write notes on:

(10 x 6 = 60)

1. Describe the methods for validation of Spectrofluorimeter.
2. Explain the detailed note for the determination of Sulphonamider.
3. Explain the methods and principle involved in the estimation of Hydroxyl group.
4. Write about the analytical procedure applied for the estimation of sodium and Iodine.
5. Explain the methods for the estimation of Erythroamycin.
6. Give the applications and principle involved in the utilization of 2, 6, Dichloro quinone chlorimide.
7. Write the principle and procedure involved in the biological assay of Cyanocobalamine.
8. Describe any two methods for the determination of rauwolfia alkaloids.
9. Write a note on effectiveness of antimicrobial preservatives.
10. Write detailed note on *Therapeutic Drug Monitoring*.
